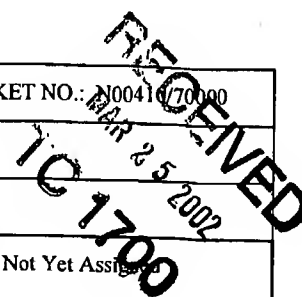
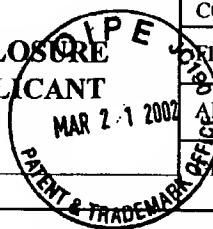


FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 09/997,999 CONFIRMATION NO.: 3909	ATTY. DOCKET NO.: N0041070000
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: November 30, 2001	
		APPLICANT: Hancock, et al.	
Sheet	1	of	3
		GROUP ART UNIT: 1714	EXAMINER: Not Yet Assigned



U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
EC	1	4,356,429		Tang	10/26/1982
	2	4,687,732		Ward et al.	08/18/1987
	3	4,927,768		Coughlin et al.	05/22/1990
	4	4,992,302		Lindmayer	02/12/1991
	5	5,155,149	A	Atwater et al.	10/13/1992
	6	5,194,393	A	Hugl et al.	03/16/1993
	7	5,236,808	A	Smothers	08/17/1993
	8	5,244,813	A	Walt et al.	09/14/1993
	9	5,254,633	A	Han et al.	10/19/1993
	10	5,364,797	A	Olson et al.	11/15/1994
	11	5,414,069	A	Cumming et al.	05/09/1995
	12	5,451,683	A	Barrett et al.	09/19/1995
	13	5,511,547	A	Markle et al.	04/30/1996
	14	5,512,490	A	Walt et al.	04/30/1996
	15	5,532,129	A	Heller	07/02/1996
	16	5,540,999	A	Yamamoto et al.	07/30/1996
	17	5,546,889	A	Wakita et al.	08/20/1996
	18	5,554,747	A	Sharma et al.	09/10/1996
	19	5,556,524	A	Albers	09/17/1996
	20	5,563,056	A	Swan et al.	10/08/1996
	21	5,565,322	A	Heller	10/15/1996
	22	5,580,527	A	Bell et al.	12/03/1996
	23	5,585,646	A	Kossovsky et al.	12/17/1996
	24	5,591,787	A	Schlennert et al.	01/07/1997
	25	5,597,890	A	Jenekhe	01/28/1997
	26	5,607,864	A	Ricchiero et al.	03/04/1997
	27	5,679,773	A	Holmes	10/21/1997
	28	5,700,696	A	Chandross et al.	12/23/1997
	29	5,705,348	A	Meade et al.	01/06/1998
	30	5,709,994	A	Pease et al.	01/20/1998
	31	5,710,197	A	Fischer et al.	01/20/1998
	32	5,723,218	A	Haugland et al.	03/03/1998
EC	33	6,259,277	B1	Tour et al.	07/10/2001



FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
PC	34	JPO	06-322078		Ryuichi et al.	11/22/1994	
	35	EP	0442123	A1	Neste Oy	08/21/1991	
	36	WO	95/16681	A1	The Trustees of the University of Pennsylvania	06/22/1995	
PC	37	WO	99/57222	A1	Swager et al.	11/11/1999	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
PC	38	HALKYARD, CARRIE E., ET AL., "Evidence of Aggregate Formation for 2,5-Dialkylpoly (p-phenyleneethynylene)s in Solution and Thin Films," Macromolecules, November 25, 1998, Vol. 31, No. 25, pp. 8655-8659, American Chemical Society	
	39	PSCHIRER, NIEL G., ET AL., "Poly(fluorenyleneethynylene)s by Alkyne Metathesis: Optical Properties and Aggregation Behavior," Macromolecules, May 9, 2000, Vol. 33, No. 11, pp. 3961-3963, American Chemical Society	
	40	PLACE, ILEANA, ET AL., "Stabilization of the Aggregation of Cyanine Dyes at the Molecular and Nanoscopic Level," Langmuir, July 28, 2000, Vol. 16, No. 23, pp. 9042-9048, American Chemical Society	
	41	CHEN, LIAOHAI, ET AL., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation," Journal of the American Chemical Society, 2000, Vol. 122 No. 38, pp. 9302-9303	
	42	JONES, ROBERT M., ET AL., "Superquenching and Its Application in J-Aggregated Cyanine Polymers," Langmuir, April 4, 2001, Vol. 17, No. 9, pp. 2568-2571, American Chemical Society	
	43	CHEN, LIAOHAI ET AL., "Highly Sensitive Biological and Chemical Sensors Based on Reversible Fluorescence Quenching in a Conjugated Polymer," Proceedings of the National Academy of Sciences of the United States of America, October 26, 1999, Vol. 96, No. 22, pp. 12287-12292	
	44	LAIBIN, LUO, ET AL., "Thermodynamic Stabilization Mechanism of Block Copolymer Vesicles," Journal of the American Chemical Society, 2001, Vol. 123, No. 5, pp. 1012-1013, American Chemical Society	
	45	WU, CHI, ET AL., "Novel Nanoparticles Formed via Self-Assembly of Poly(ethylene glycol-b-sebacic anhydride) and Their Degradation in Water," Macromolecules, October 31, 2000, Vol. 33, No. 24, pp. 9040-9043, American Chemical Society	
	46	HEEGER, PETER S., ET AL., "Making Sense of Polymer-Based Biosensors," Proceedings of the National Academy of Sciences of the United States of America, October 26, 1999, Vol. 96, No. 22, pp. 12219-12221	
	47	LI, MEI, ET AL., "Novel Surfactant-Free Stable Colloidal Nanoparticles Made of Randomly Carboxylated Polystyrene Ionomers," Macromolecules, 1997, Vol. 30, No. 7, pp. 2201-2203, American Chemical Society	
	48	ZHANG, GUANGZHAO, ET AL., "Formation of Novel Polymeric Nanoparticles," Accounts of Chemical Research, January 6, 2001, Vol. 34, No. 3, pp. 249-256, American Chemical Society	
	49	SIGURD, HOGER, ET AL., "Synthesis, Aggregation, and Adsorption Phenomena of Shape-Persistent Macrocycles with Extraannular Polyalkyl Substituents," Journal of the American Chemical Society, May 22, 2001, Vol. 123, No. 24, pp. 5651-5659, American Chemical Society	
	50	GAYLORD, BRENT S., ET AL., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies," Journal of the American Chemical Society, June 8, 2001, Vol. 123, No. 26, pp. 6417-6418, American Chemical Society,	
	51	HARRISON, BENJAMIN S., ET AL., "Amplified Fluorescence Quenching in a Poly(p-phenylene)-Based Cationic Polyelectrolyte," Journal of the American Chemical Society, August 16, 2001, Vol. 122, No. 35, pp. 8561-8562, American Chemical Society	
	52	Q. ZHOU & T.M. SWAGER, "Methodology for Enhancing the Sensitivity of Fluorescent Chemosensors: Energy Migration In Conjugated Polymers," Journal of the American Chemical Society, Vol. 117, No. 26, pp. 7017-7018, 1995, American Chemical Society	
	53	J. KIM ET AL., "Nanoscale Fibrils and Grids: Aggregated Structures from Rigid-Rod Conjugated Polymers," Macromolecules, March 9, 1999, Vol. 32, No. 5, pp. 1500-1507, American Chemical Society	
	54	A.W. SNOW ET AL., "Synthesis and Evaluation of Hexafluorodimethylcarbinol Functionalized Polymers as Microsensor Coatings," Journal of Applied Polymer Science, Vol. 43, pp. 1659-1671, 1991, John Wiley and Sons	
	55	I.A. LEVITSKY ET AL., "Energy Migration in a Poly(phenylene ethynylene): Determination of Interpolymer Transport in Anisotropic Langmuir-Blodgett Films," Journal of the American Chemical Society, February 4, 1999, Vol. 121, No. 7, pp. 1466-1472, American Chemical Society	
PC	56	K.A. VAN HOUTEN ET AL., "Rapid Luminescent Detection of Phosphate Esters in Solution and the Gas Phase Using (dppe)Pt(S ₂ C ₂ (2-pyridyl)(CH ₂ CH ₂ OH)),," Journal of the American Chemical Society, November 13, 1998, Vol. 120, No. 47, pp. 12359-12360, American Chemical Society	



C.C.	57	ZHOU, QIN, ET AL., "Florescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Wire Approach to Increased Sensitivity," Journal of the American Chemical Society, 1995, Vol. 117, No. 50, pp. 12593-12602, American Chemical Society		
	58	SWAGER, TIMOTHY M., ET AL., "Fluorescent studies of poly(p-phenyleneethynylene)s: The Effect of Anthracene Substitution," Journal of Physical Chemistry, March 30, 1995, Vol. 1995, No. 99, pp. 4886-4893, American Chemical Society		
	59	SWAGER, TIMOTHY M., ET AL., "The Molecular Wire Approach to Sensory Signal Amplification," Accounts of Chemical Research, April 4, 1998, Vol. 31, No. 5, pp. 201-207, American Chemical Society		
	60	FU DIAN-KUI, ET AL., "Alternating Poly(Pyridyl Vinylene Phenylene Vinylene)s: Synthesis and Solid State Organizations," Tetrahedron, November 10, 1997, Vol. 53, No. 45, pp. 15487-15494, Elsevier Sci. Ltd.		
	61	MIAO YI-JUN, ET AL., "Fluorescence Sensory Polymers Containing Rigid Non-Planar Aromatic Scaffolds," Proceedings of the 1997 Boston Meeting; Boston, MA, USA, August 23-27, 1998, Vol. 39, No. 2, pp. 1081-1082		
	62	YANG, JYE-SHANE, ET AL., "Fluorescent Porous Polymer Films as TNT Chemosensors: Electronic and Structural Effects," Journal of the American Chemical Society, November 11, 1998, Vol. 120, No. 46, pp. 11864-11873, American Chemical Society		
P.C.	63	WEDER, CHRISTOPH, ET AL., "Efficient Solid-State Photoluminescence in New Poly(2,5-dialkoxy-p-phenyleneethynylene)s," Macromolecules, July 15, 1996, Vol. 15, No. 29, pp. 5157-5165, American Chemical Society		

EXAMINER	<i>Adel</i>	DATE CONSIDERED	7/04
----------	-------------	-----------------	------

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]



FORM PTO-146 (A and B (Modified))		APPLICATION NO.: 09/997,999	ATTY. DOCKET NO.: N00410.70000.US
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: November 30, 2001	CONFIRMATION NO.: 3909
		APPLICANT: Hancock et al.	
		GROUP ART UNIT: 1714	EXAMINER: Not Yet Assigned
Sheet	I	of	I

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
GC		GAYLORD et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes," PNAS, August 20, 2002, Vol. 99, No. 17, pp. 10954-10957	
		KIM et al., "Ultrafast Energy-Transfer Dynamics between Block Copolymer and π -Conjugated Polymer Chains in Blended Polymeric Systems," Chemistry of Materials, Vol. 13(8), pp. 266-2674	
		KRAFT et al., "Electroluminescent Conjugated Polymers - Seeing Polymers in a New Light," Agnew. Chem. Int. Ed. 1998, 37, 402-428	
		KUSHON et al., "Detection of DNA Hybridization via Fluorescent Polymer Superquenching," The ACS Journal of Surfaces and Colloids, October 1, 2002, Volume 18, Number 20	
		PENG et al., "Efficient Light Harvesting by Sequential Energy Transfer across Aggregates in Polymers of Rigid Conjugational Segments with Short Aliphatic Linkages," J. Am. Chem. Soc., 2001, Vol. 123, pp. 11388-11394	
		TAN et al., "Photophysics, aggregation and amplified quenching of a water-soluble poly(phenylene ethynylene)," Chem. Commun., 2002, pp. 446-447	
Pe		WALTERS et al., "Photophysical Consequences of Conformation and Aggregation in Dilute Solutions of π - Conjugated Oligomers," Langmuir, 1999, Vol. 15, pp. 5676-5680	

EXAMINER <i>Qdlh</i>	DATE CONSIDERED <i>8/04</i>
----------------------	-----------------------------

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).